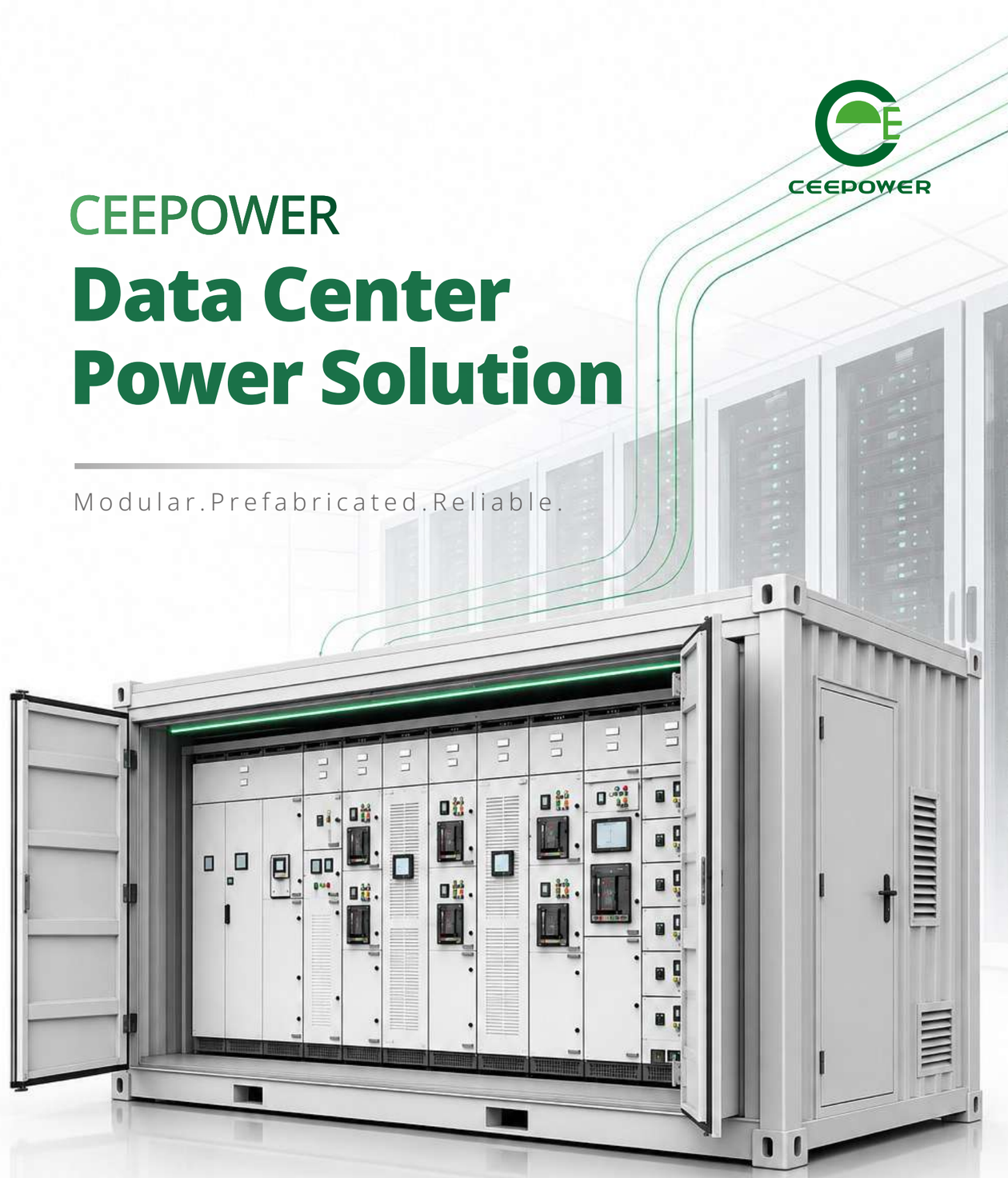
CEEPOWER

Data Center Power Solution

Modular.Prefabricated.Reliable.



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— Version 260610 —

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About Ceepower

Energy Internet System Solutions Provider

Ceepower Co., Ltd., founded in 1999, is a technology-driven enterprise specializing in medium-high voltage cable connection systems and power distribution solutions. Listed on the Shenzhen Stock Exchange (Stock Code: 300062) in 2010, it has emerged as one of the leading electrical equipment manufacturers in China.

· Quality and Technology

Ceepower upholds a quality-first philosophy. In-house EPDM compounding and ***ISO 9001–certified*** production ensure stable performance and full traceability. All products are tested to ***IEC*** and ***IEEE*** standards by accredited laboratories.

· Global Presence

Ceepower supplies utilities and partners in ***30+*** countries and is an approved vendor to the ***State Grid of China*** and ***Saudi Electricity Company (SEC)***. ***KEMA, LAPEM, and RETIE*** certifications demonstrate its reliable performance and global compliance.

· Customer Value

Ceepower delivers reliable, easy-to-maintain cable connection systems that enhance grid stability and reduce lifecycle costs, helping customers achieve safe, efficient, and long-term power performance.

430+ Million
USD in Assets

900+
Employees

200+
Patents & Software Copyrights

30+
Countries and Regions Sold

180,000m²
Site Area

180,000m² Production Base

· ISO Management Systems

ISO 9001 – Quality Management

ISO 14001 – Environmental Management

ISO 45001 – Occupational Health & Safety

Quality Assurance Centre of China Association for Quality

China National Accreditation Service for Conformity Assessment

International Accreditation Forum

· International Testing & Certifications

CESI

LAPEM®

KEMA

TÜV SÜD

IPH BERLIN

RETIE

· Smart Manufacturing

180,000 m²
Site Area

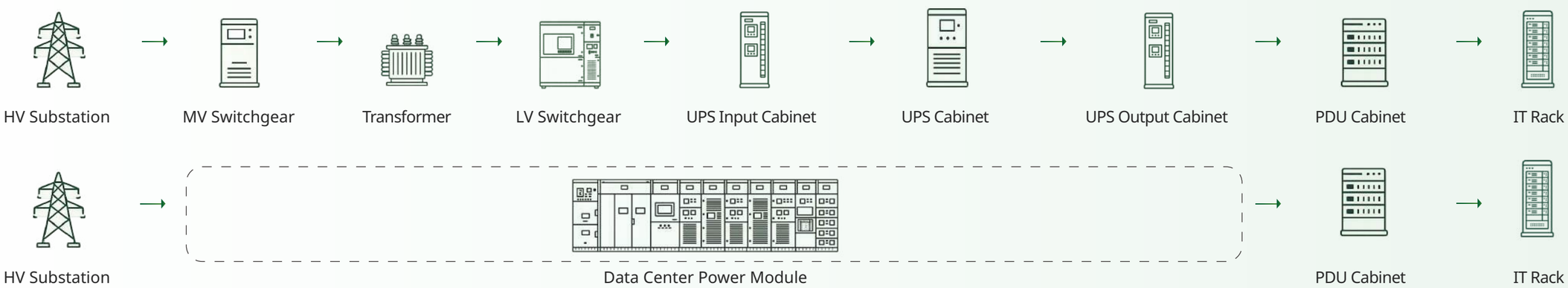
82,000 m²
Factory Area

900 +
Production & Testing Equipment

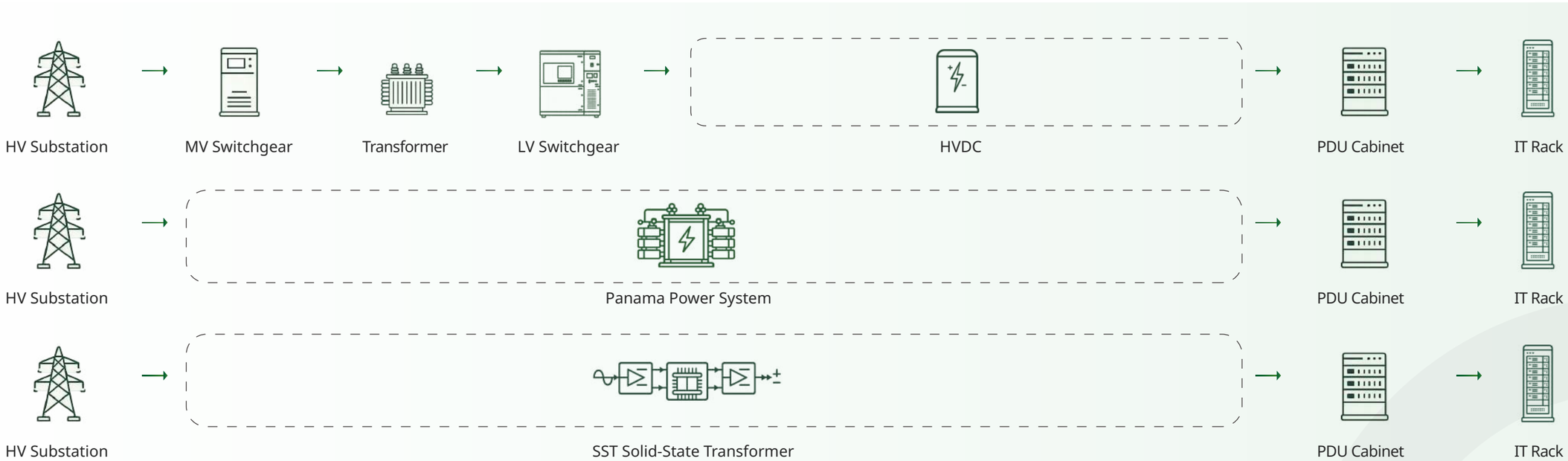
Ceepower Data Center Power Solution

■ Typical Data Center Power Architecture

· AC Architecture



· DC Architecture



■ Ceepower End-to-End Data Center Power Solution

· AC Power Solution

Power Source	HV Substation	MV Distribution	Transformer	LV Distribution	UPS System		Final Distribution	IT Load
Utility Power	126kV GIS 252kV GIS	**MV Switchgear:** KYN28, NXAirS, MVnex, C-GIS	Dry-Type Transformer	**LV Switchgear:** Drawer type, Fixed type, Fixed partition type, 8PT, BlokSeT, SVG	UPS Cabinet	**Battery Switchgear:** Authorized- PrismaSeT	**PDU Cabinet:** Authorized- PrismaSeT	IT / Network Rack
	Distribution Panel: Power panel, lighting panel, control panel							
	Prefabricated Substation	Prefabricated MV Module	Prefabricated LV Module		Prefabricated Battery Module		Prefabricated IT Module	
		Data Center Power Module						
		Prefabricated Power Module						
Backup Power		**MV Switchgear:** KYN28, NXAirS, MVnex, C-GIS, Gas-Insulated RMU		**LV Switchgear:** Drawer type, Fixed type, Fixed partition type, 8PT, BlokSeT, SVG				
		MV Diesel Genset Module		LV Diesel Genset Module				

Prefabricated Data Center

■ Ceepower End-to-End Data Center Power Solution

· DC Power Solution

Power Source	HV Substation	MV Distribution	Transformer	LV Distribution	HVDC System	Final Distribution	IT Load
Utility Power	126kV GIS 252kV GIS	**MV Switchgear:** KYN28, NXAirS, MVnex, C-GIS	Dry-Type Transformer	**LV Switchgear:** Drawer type, Fixed type, Fixed partition type, 8PT, BlokSeT, SVG	Rectifier Cabinet	**PDU Cabinet:** Authorized- PrismaSeT	IT / Network Rack
	Distribution Panel: Power panel, lighting panel, control panel						
	Prefabricated Substation	Prefabricated MV Module	Prefabricated LV Module			Prefabricated IT Module	
		Data Center Power Module					
		Prefabricated Power Module					
Backup Power		**MV Switchgear:** KYN28, NXAirS, MVnex, C-GIS, Gas-Insulated RMU		**LV Switchgear:** Drawer type, Fixed type, Fixed partition type, 8PT, BlokSeT, SVG			
		MV Diesel Genset Module		LV Diesel Genset Module			

Prefabricated Data Center

■ Ceepower End-to-End Data Center Power Solution

· Panama Power Solution

Power Source	HV Substation	MV Distribution	Panama Power System	Final Distribution	IT Load
Utility Power	126kV GIS 252kV GIS	**MV Switchgear:** KYN28, NXAirS, MVnex, C-GIS		**PDU Cabinet:** Authorized- PrismaSeT	IT / Network Rack
			Distribution Panel: Power panel, lighting panel, control panel		
	Prefabricated Substation	Prefabricated MV Module		Prefabricated IT Module	
		Data Center Power Module			
		Prefabricated Power Module			
Backup Power		**MV Switchgear:** KYN28, NXAirS, MVnex, C-GIS, Gas-Insulated RMU			
		MV Diesel Genset Module			

Prefabricated Data Center

Ceepower End-to-End Data Center Power Solution

· SST System Power Solution

Power Source	HV Substation	MV Distribution	SST - Solid-State Transformer	Final Distribution	IT Load
Utility Power	126kV GIS 252kV GIS	**MV Switchgear:** KYN28, NXAirS, MVnex, C-GIS		**PDU Cabinet:** Authorized- PrismaSeT	IT / Network Rack
	Distribution Panel: Power panel, lighting panel, control panel				
	Prefabricated Substation	Prefabricated MV Module Data Center Power Module Prefabricated Power Module		Prefabricated IT Module	
Backup Power		**MV Switchgear:** KYN28, NXAirS, MVnex, C-GIS, Gas-Insulated RMU MV Diesel Genset Module			

Prefabricated Data Center

■ Ceepower End-to-End Data Center Power Solution

· Solution Advantages

Integrated power solutions combining proven reliability, modular design and prefabricated delivery for efficient deployment and reduced on-site work.

Grid-Level Reliability

Proven power equipment supplier to China State Grid, with end-to-end quality control.

Rail Transit Proven

Experience in railway and rail transit power systems, where reliability and continuity are key requirements.

Modular Design

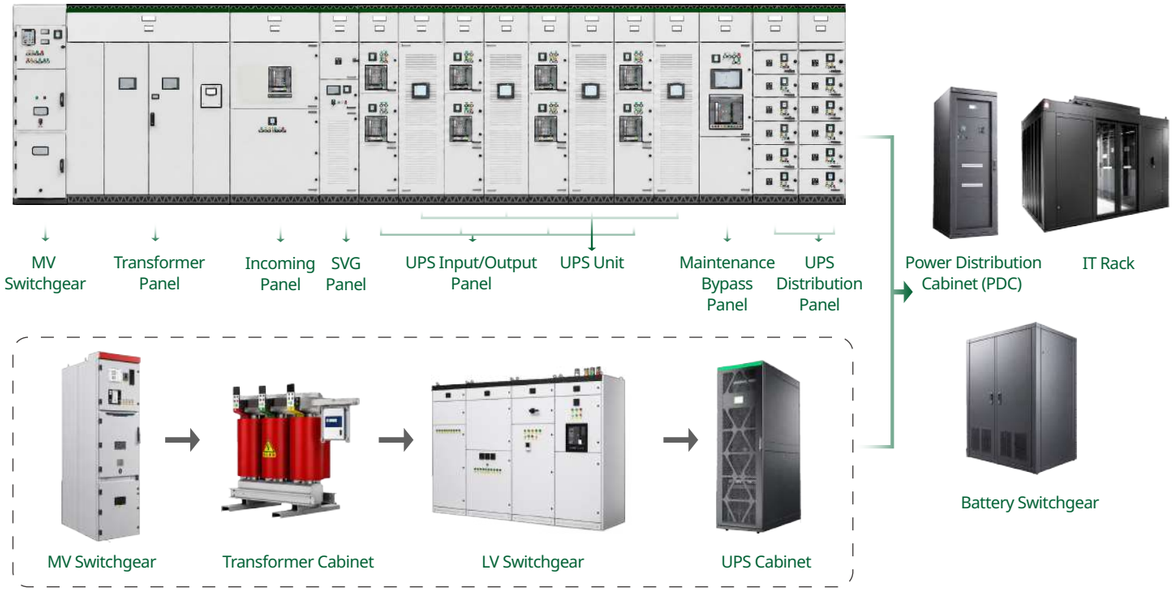
Optimized for key nodes across the data center power distribution chain to meet different system needs.

Prefabricated Delivery

Factory-integrated and pre-commissioned to reduce on-site work and risks.

Data Center Power Module

· Product Overview



· Performance Highlights

4 Key Advantages

SPACE SAVING

40%+ Less Space

High-density integration frees up space for IT equipment or green areas, reducing rental and construction costs.

ENERGY SAVING

Up to 97% Efficiency

Centralized design, efficient transformers and smart UPS operation reduce line losses, PUE and energy costs.

TIME SAVING

2 Weeks Delivery

Factory prefabrication, integration and testing enable fast plug-and-play deployment.

EASY O&M

Minimal Downtime

Smart monitoring, early warning and online replacement support continuous operation.

6 Key Differentiators

Data Center Power Module		Conventional Distribution
Power pooling supports supply continuity during module faults.	***Reliability***	Module faults may require supply switching.
Over 40% less space.	***Footprint***	Requires separate equipment areas.
Integrated design reduces cabling and installation costs.	***Cost***	More cables and switches increase costs.
Up to 97% efficiency.	***Efficiency***	Longer power paths increase losses.
About 75% faster deployment.	***Deployment***	Longer on-site installation and testing.
Centralized monitoring simplifies O&M.	***O&M***	Separate monitoring increases workload.

High Voltage Power Equipment

Core Products for Data Center
High Voltage Power Equipment

- 126kV Gas-Insulated Switchgear (GIS)
- 145kV Gas-Insulated Switchgear (GIS)
- 252kV Gas-Insulated Switchgear (GIS)
- 40.5kV Gas-Insulated Switchgear (C-GIS)

126kV GIS

A 126kV gas-insulated switchgear (GIS) solution for 110kV data center substations. Bay arrangement, busbar configuration, and monitoring schemes are engineered to suit the primary system design.

Design and Functions

- **Three-Phase Common Tank**
  Fully three-phase common-tank design with a three-position disconnector/earthing switch.
- **Flexible Configuration**
  Compatible with integrated and split-type switchgear, supporting fully assembled transport.
- **Low Partial Discharge**
  Partial discharge ⩽3pC at 80% of power-frequency withstand voltage.
- **Reliable Sealing**
  Dual-seal structure ensures reliable gas-tight performance.
- **E2-M2-C2 Circuit Breaker**
  Circuit breaker rated to E2-M2-C2 classification.
- **Advanced Insulator Casting**
  Advanced conical insulator casting process with leading manufacturing capability.
- **Compact Design**
  Minimum bay width of 0.8m, with 1m standard bay width.

SPEC

Model	ZFW□-126/T3150-40
Rated Voltage	126kV
Rated Current	3150A
Rated Frequency	50Hz
Short-Time Withstand Current	40kA
Peak Withstand Current	100kA
Insulation Level	650kV lightning impulse / 275kV power frequency
Insulating Medium	SF_6, 0.6 MPa at 20°C (absolute)
Bay Configuration	Incomer, transformer, bus coupler, PT and surge arrester, feeder
Standards	GB/T 7674-2020, GB/T 1984-2024, GB/T 1985-2023, IEC 62271-203, IEC 62271-100, IEC 62271-102

Data Center Applications

Application

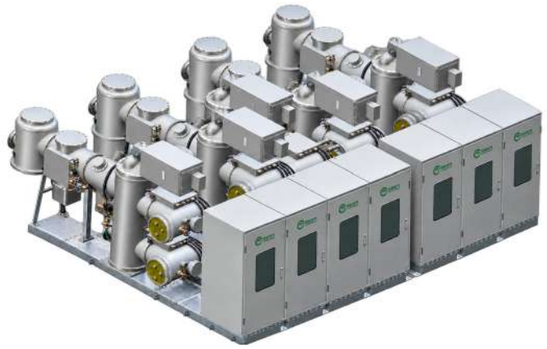
Core HV switchgear for 110kV data center substations.

Selection

Modular GIS configured by capacity, voltage level, site conditions, rated current, and short-circuit rating.

Design Basis

Designed to applicable data center, HV switchgear, and utility substation standards.



145kV GIS

A 145kV gas-insulated switchgear solution for 132kV data center substations, combining compact design, reliable insulation, and flexible project configuration.

Design and Functions

- **Three-Phase Common Tank**
  Fully three-phase common-tank design with a three-position disconnector/earthing switch.
- **High-Performance Circuit Breaker**
  E2-M2-C2 class circuit breaker for reliable switching performance.
- **Low Partial Discharge**
  Partial discharge ⩽3pC at 80% of the power-frequency withstand voltage.
- **Compact Bay Design**
  Minimum bay width of 0.8m, with a standard bay width of 1m.
- **Reliable Sealing**
  Dual-seal structure enhances gas-tightness and long-term operating reliability.
- **Advanced Insulation Design**
  Advanced conical insulator casting process ensures stable insulation performance.
- **Flexible Configuration**
  Compatible with integrated and split-type switchgear, supporting fully assembled transport.

SPEC

Model	ZFW□-145/T3150-40
Rated Voltage	145kV
Rated Current	3150A
Rated Frequency	50Hz
Short-Time Withstand Current	40kA
Peak Withstand Current	100kA
Insulation Level	650kV lightning impulse / 275kV power frequency
Insulating Medium	SF_6; rated filling pressure: 0.6MPa for CB, 0.4MPa for other gas compartments at 20°C
Bay Configuration	Incomer, main transformer, bus coupler, PT/surge arrester, and outgoing feeder bays in modular configuration
Standards	GB/T 7674-2020, GB/T 1984-2024, GB/T 1985-2023, IEC 62271-203, IEC 62271-100, IEC 62271-102

Data Center Applications

Application
For HV power distribution in data center substations.

Selection
Modular GIS configured by system voltage, rated current, short-circuit level, and site conditions.

Design Basis
Designed to GB/T 7674, GB/T 1984, GB/T 1985, IEC 62271-203, IEC 62271-100, IEC 62271-102 and applicable standards.

252kV GIS

A 220kV, 252kV GIS solution for 220kV data center substations, with system configuration, bay arrangement, and project scope engineered to project requirements.

Design and Functions

- **HV Control**
  Control, protection, and isolation for 220kV lines, transformers, bus couplers, and bays.
- **System Integration**
  Busbar arrangement, bay quantity, and expansion design tailored to the primary system and site conditions.
- **Insulation and Safety**
  Insulation coordination, grounding, interlocking, and overvoltage protection verified as an integrated design.
- **Condition Monitoring**
  Gas, mechanical, and online monitoring configured to the maintenance strategy.
- **Project Execution**
  Transport, site assembly, testing, commissioning, and maintenance access planned for each project.

SPEC

Model	ZFW□-252/T4000-50
Rated Voltage	252kV
Rated Current	4000A
Rated Frequency	50Hz
Short-Time Withstand Current	50kA
Peak Withstand Current	125kA
Insulation Level	1050kV lightning impulse / 460kV power frequency
Insulating Medium	SF_6, 0.6MPa at 20°C (absolute)
Bay Configuration	Transformer incomer, 220kV feeder, bus coupler, PT/surge arrester, grounding and maintenance bays
Standards	GB/T 7674-2020, GB/T 1984-2024, GB/T 1985-2023, IEC 62271

Data Center Applications

Application
For T3/T4 data centers and 220kV substations serving computing campuses.

Selection
Compact, high-capacity, intelligent O&M, and double-busbar GIS solutions.

Design Basis
Designed to GB 50174, DL/T 5218, GB 7674, IEC 62271-203 and related standards.

40.5kV C-GIS

Gas-Insulated Switchgear

A metal-enclosed GIS solution for data center substations, with voltage level, bay configuration, and insulating gas selected for each project.

Design and Functions

- **Compact Design**
  Three-circuit SF_6 gas-insulated metal enclosure, ideal for compact data-center layouts.
- **Bay Configuration**
  Flexible configuration of feeders, bus-tie, metering, PT and grounding to suit system needs.
- **Safe Isolation**
  Mechanical interlocks ensure safe switching, isolation, grounding and cabinet access.
- **Smart O&M**
  Monitoring of gas, temperature, partial discharge and breaker condition as required.
- **Engineering Coordination**
  Integrated design of interfaces, layout, pressure relief, foundations and maintenance clearances.

SPEC

Model Series	ELE-12/Z-1250-31.5
Rated Voltage	40.5kV (IEC 60038)
Rated Current	1250A
Rated Frequency	50 / 60Hz (IEC 60196)
Short-Time Withstand Current	31.5kA
Peak Withstand Current	80kA
Insulation Level	185kV lightning impulse; 95kV power frequency
Insulating Medium	SF_6, 0.4MPa at 20°C (absolute)
Bay Configuration	Transformer incomer, cable feeder, bus coupler, PT, earthing/sectionalizing, and metering bays
Standards	GB/T 3906, IEC 62271-200

Data Center Applications

Application

For 35kV distribution in data centers and computing parks, supporting power intake, distribution, bus-tie switching, and fault isolation.

Selection

Configured by short-circuit level, rated current, main wiring scheme, internal arc classification, and site conditions.

Design Basis

Designed to GB/T 3906, IEC 62271-200 and utility standards.

Medium Voltage Distribution Equipment

Core Products for Data Center
Medium Voltage Distribution Equipment

- 12kV NXAirs Switchgear – Siemens-Authorized
- 12kV MVnex Switchgear – Schneider-Authorized
- 40.5kV KYN61-40.5 Switchgear
- 12kV KYN28A-12 Switchgear

NXAirS
12kV MV Switchgear

Siemens-Authorized

A Siemens-designed metal-enclosed switchgear solution for safe, reliable, and flexible medium-voltage distribution.

Design and Functions

- **Type-Tested**
  Type-tested for reliable operation.
- **Compact Design**
  Space-saving and flexible configuration.
- **Air Insulation**
  Optimized air-insulated main busbar design.
- **Safety Interlocking**
  Integrated interlocks support safe operation.
- **Arc Control**
  Dedicated pressure-relief system helps limit internal arc effects.

SPEC

Model	NXAirS
Rated Voltage	12kV
Rated Current	1250 / 4000A
Short-Circuit Breaking Current	31.5 / 40kA
Power-Frequency Withstand Voltage	42 / 48kV, phase-to-phase / across isolating distance
Lightning Impulse Withstand Voltage	75 / 85kV, phase-to-phase / across isolating distance
Altitude	Up to 1000m
Short-Time Withstand Current	31.5 / 40kA
Rated Frequency	50 / 60Hz (IEC 60196)
Standards	GB/T 3906, IEC 62271-200
Degree of Protection	IP40

Data Center Applications

Application

For medium-voltage distribution in utility and industrial systems.

Selection

Configured to the 12kV system, short-circuit level, panel type, and circuit-breaker arrangement.

Design Basis

Designed in accordance with GB/T 3906, IEC 62271-200 and applicable grid and industry standards.

MVnex
12kV MV Switchgear

Schneider-Authorized

Schneider-authorized medium-voltage switchgear for utility, industrial, railway and data center applications.

Design and Functions

- **High Performance**
  1250A/31.5kA and 4000A/40kA ratings available.
- **Flexible Application**
  For industrial plants, infrastructure and data centers requiring reliable power distribution.
- **Safety Interlocking**
  Mechanical interlocking and clear status indication for safe operation.
- **Intelligent Monitoring**
  Online temperature, partial discharge and breaker condition monitoring available.

SPEC

Model	MVnex
Rated Voltage	12kV
Rated Current	1250A / 4000A
Rated Short-Circuit Breaking Current	31.5kA / 40kA
Power Frequency Withstand Voltage	42 / 48kV (phase-to-phase / across isolating distance)
Lightning Impulse Withstand Voltage	75 / 85kV (phase-to-phase / across isolating distance)
Short-Time Withstand Current	31.5kA / 40kA
Altitude	Up to 1000m
Rated Frequency	50 / 60Hz (IEC 60196)
Standards	GB/T 3906, IEC 62271-200
Degree of Protection	IP40

Data Center Applications

Application

For data centers and facilities requiring high power continuity.

Selection

Configured by current rating, withdrawable unit, feeder arrangement and protection needs.

Authorization

Schneider-authorized MVnex switchgear.

KYN61-40.5 40.5kV Switchgear

KYN61-40.5 is air-insulated, withdrawable metal-clad switchgear for 35kV, 50Hz three-phase AC systems.

Design and Functions

Application
For power plants, substations, industrial facilities, renewable energy, and high-rise buildings. Supports RS485 communication and remote monitoring.

Metal-Clad Design
Withdrawable construction with separated compartments.

Air Insulation
Easy operation and maintenance.

Floor-Mounted Truck
Reduces misalignment and contact issues.

Reliable Operation
Foundation-supported design improves interlocking and handling.

SPEC

Model	KYN61-40.5
Rated Voltage	40.5kV
Rated Current	Up to 4000A
Short-Circuit Breaking Current	Up to 40kA
Power-Frequency Withstand Voltage	95 / 118kV, phase-to-phase / across isolating distance
Lightning Impulse Withstand Voltage	185 / 215kV, phase-to-phase / across isolating distance
Altitude	Up to 1000m
Short-Time Withstand Current	31.5kA
Rated Frequency	50 / 60Hz (IEC 60196)
Standard	GB/T 3906, IEC 62271-200
Degree of Protection	IP40

Data Center Applications

Application
For 35kV systems in substations, metro, hospitals, data centers, and high-rise buildings.

Selection
Configured by rated current, truck type, cable entry, and protection needs. Special environments require customized design.

Design Basis
Based on GB/T 3906, IEC 62271-200 and applicable industry guidelines.

KYN28A-12 12kV Switchgear

KYN28A-12 is indoor metal-clad switchgear for 12kV, 50/60Hz power distribution in data centers and industrial facilities.

Design and Functions

Flexible Application
For incomer, feeder, bus coupler, metering, protection, and transformer circuits.

Reliable Power Supply
Metal-clad compartmentalization and short-circuit withstand capability help isolate faults and maintain supply continuity.

Flexible Integration
Can be integrated with transformers, LV switchgear, prefabricated units, and power modules for modular deployment.

System Adaptability
Supports dual utility feeds, sectionalized busbars, and bus-coupler configurations.

Easy Maintenance
Withdrawable design simplifies circuit breaker inspection, maintenance, and replacement.

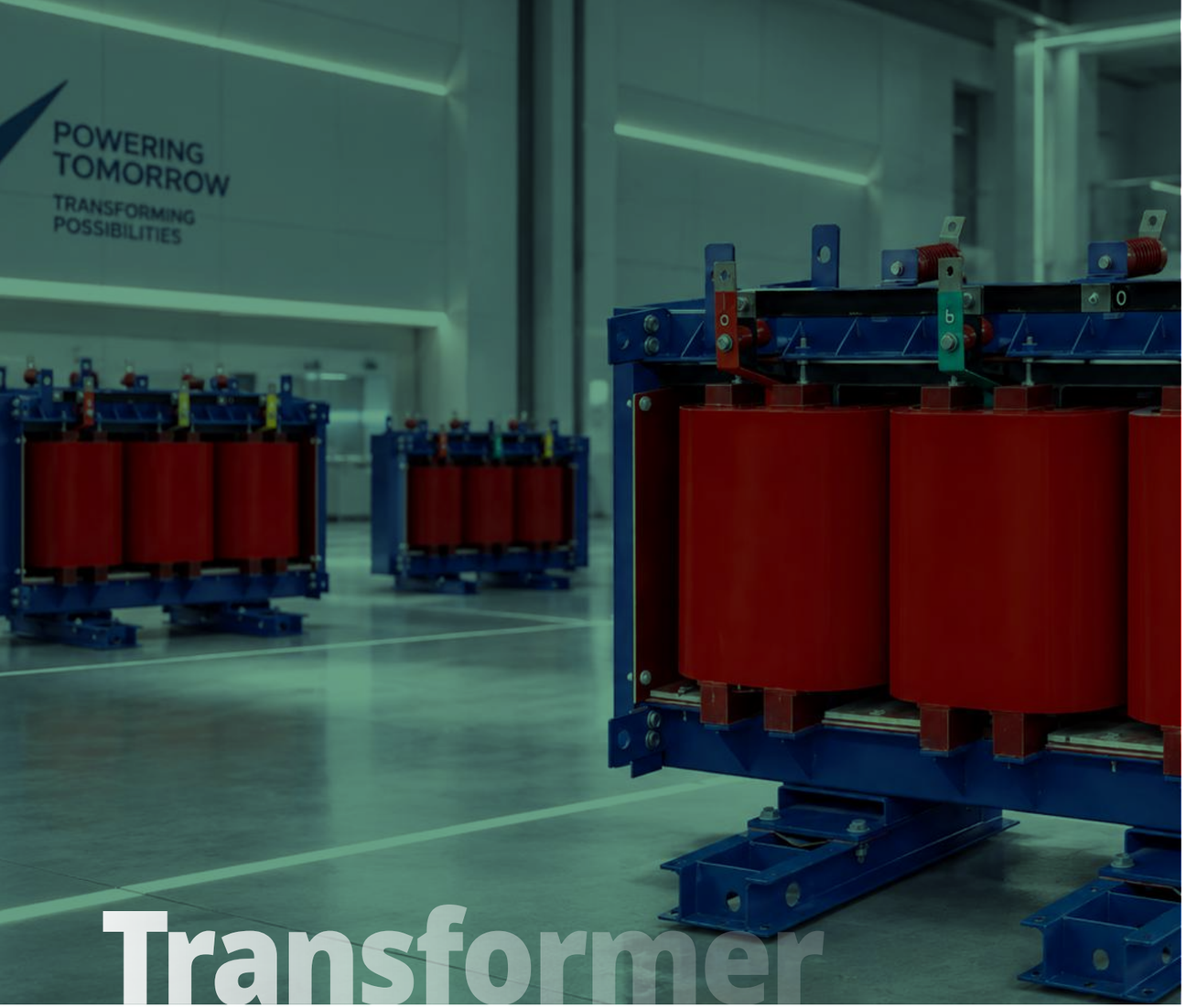
SPEC

Rated Frequency	50 / 60Hz
Rated Voltage	12kV
Rated Current	630–4000A
Altitude	Up to 1000m
Power-Frequency Withstand Voltage	42 / 48kV, phase-to-phase / across isolating distance
Lightning Impulse Withstand Voltage	75 / 85kV, phase-to-phase / across isolating distance
Rated Short-Circuit Breaking Current	25–40kA
Short-Time Withstand Current	25–40kA / 4s
Degree of Protection	Enclosure IP4X; IP2X with compartment doors open
Standards	GB/T 3906, IEC 62271-200

Data Center Applications

Application
For MV distribution in AI, cloud, carrier, industrial, commercial, and campus facilities, including transformer feeders, bus couplers, prefabricated units, and power modules.

Design Basis
Designed to GB/T 3906, IEC 62271-200 and applicable industry standards.



Transformer

Core Products for Data Center
Transformer

- 10kV Epoxy Resin Dry-Type Transformer
- 10kV Amorphous Dry-Type Transformer

10kV Epoxy Resin Dry-Type Transformer

A 10kV dry-type transformer for data center distribution, combining low no-load loss, epoxy resin insulation, and intelligent temperature control for reliable operation of critical IT loads.

Design and Functions

- **Product Range**
  SC(B)14 / 18 series for 10kV data center distribution.
- **Energy Efficiency**
  Silicon steel core helps reduce no-load loss for continuous operation.
- **Safety and Reliability**
  Class H vacuum-cast epoxy HV windings provide low partial discharge, high mechanical strength, flame resistance, and low maintenance.
- **Smart Monitoring**
  Supports fault and overtemperature alarms, trip protection, and RS485 monitoring.
- **Flexible Integration**
  IP20/IP30/IP40 enclosures with side or top cable entry, suitable for integration with LV switchgear, prefabricated units, and power modules.

Data Center Applications

Energy Efficiency

Low no-load loss supports continuous data center operation.

Safe O&M

Epoxy resin insulation, temperature monitoring, and optional enclosures support safe and reliable operation.

Design Basis

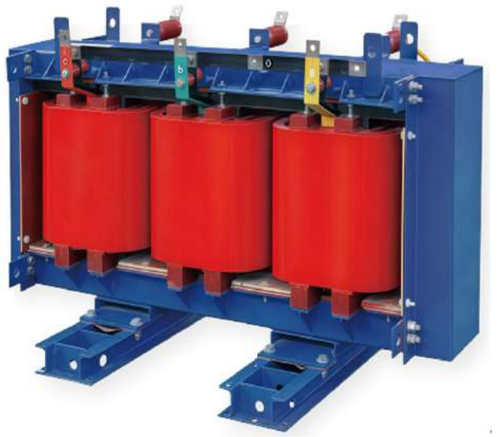
Designed to GB/T 1094, GB 20052 and applicable standards.

SPEC

Rated Voltage	10kV
Rated Capacity	30–3150kVA
Model Series	SC(B)14 / 18
Efficiency Class	Class 1 / 2 / 3
Vector Group	Dyn11 / Yyn0
Cooling	Natural air / forced air
Insulation System	Class H epoxy resin
Overload Capacity	125% continuous operation with forced-air cooling
Degree of Protection	IP20 / IP30 / IP40
Standards	GB/T 1094, GB 20052, etc.

10kV Amorphous Dry-Type Transformer

For 10kV data center distribution, combining low no-load loss, epoxy insulation, and intelligent temperature control for critical IT loads.



Design and Functions

- **Product Range**
  SC(B)H15, SC(B)H17, and SC(B)H19 series for 10kV data center distribution.
- **Energy Efficiency**
  Amorphous alloy core reduces no-load loss for continuous operation.
- **Safety and Reliability**
  H-class vacuum-cast epoxy windings offer low partial discharge, high strength, flame resistance, and low maintenance.
- **Smart Monitoring**
  Supports fault and overtemperature alarms, trip protection, and RS485 monitoring.
- **Flexible Integration**
  IP20/IP30/IP40 enclosures, side or top cable entry, and integration with LV switchgear, prefabricated units, and power modules.

Data Center Applications

Application

For AI, cloud, carrier, and campus data centers.

Selection

Configured by capacity, efficiency, impedance, cooling, protection, and interface needs.

Delivery

Includes drawings, system diagrams, technical documents, and test reports.

SPEC

Rated Voltage	10kV
Rated Capacity	30–2500kVA
Model Series	SC(B)H15 / 17 / 19
Efficiency Class	Class 1 / 2 / 3
Vector Group	Dyn11 / Yyn0
Cooling	Natural air / forced air
Insulation System	Class H epoxy resin
Overload Capacity	125% continuous operation with forced-air cooling
Degree of Protection	IP20 / IP30 / IP40
Standards	GB/T 1094, GB 20052, IEC 60076 series (IEC 60076-20), etc.

Low Voltage Distribution Equipment

Core Products for Data Center
Low Voltage Distribution Equipment

- **AC LV Switchgear**
  - GDF Fixed-Compartment Switchgear
  - LV Withdrawable Switchgear
  - BlokSeT Schneider-Authorized Switchgear
  - SIVACON 8PT Siemens-Authorized Switchgear
  - Power Distribution Unit
- **DC LV Switchgear**
  - Power Distribution Unit
- **LV Distribution Box**
  - Prisma E Distribution Board
  - XL-21 Distribution Box
  - PZ-30 Distribution Box

GDF
Fixed-Compartment Switchgear

For three-phase 50/60Hz power distribution systems up to 660V, used for power distribution, conversion and control.

Design and Functions

- **Compact Design**
  Plug-in switches installed in independent fixed compartments.
- **Safe Maintenance**
  Independent compartments improve maintenance access and operational safety.
- **Modular Assembly**
  Standardized modular structure simplifies assembly, storage and transportation.
- **Flexible Application**
  Suitable for power distribution centers (PC) and motor control centers (MCC).
- **Safety Protection**
  High-strength flame-retardant engineering plastic components enhance protection.

SPEC

Rated Insulation Voltage	690 / 1000V
Rated Operational Voltage	400V AC (IEC 60038)
Rated Frequency	50 / 60Hz (IEC 60196)
Main Busbar Rated Current	Up to 6300A
Distribution Busbar Rated Current	Up to 4000A
Vertical Busbar Rated Current	Up to 1600A
Main Busbar Short-Time Withstand Current	Up to 100kA
Distribution Busbar Short-Time Withstand Current	Up to 50kA
Degree of Protection	IP32-IP42
Standards	GB/T 7251.2, IEC 61439-2

Data Center Applications

Application

For power distribution and motor control in power plants, substations, industrial facilities, high-rise buildings and communication centers.

Selection

Configured according to operating voltage, busbar current, cabinet function and protection requirements.

Design Basis

Designed to GB/T 7251.2, IEC 61439-2 and applicable industry standards.

LV Withdrawable Switchgear

Low-voltage withdrawable switchgear features a compact, standardized and flexible design for low-voltage power distribution in power plants, substations, industrial facilities and public buildings.

Design and Functions

- **Flexible Configuration**
  Supports a wide range of standard components for different application requirements.
- **Compact Design**
  Back-to-back component arrangement maximizes internal space utilization.
- **Standardized Design**
  Standardized construction simplifies engineering selection and system configuration.
- **Reliable Operation**
  Flexible circuit arrangement facilitates system expansion and equipment upgrades while maintaining reliable operation.
- **Safety Assurance**
  Type-tested design for safe and reliable operation.

SPEC

Rated Insulation Voltage	690 / 1000V
Rated Operational Voltage	400V AC
Rated Frequency	50 / 60Hz
Main Busbar Rated Current	Up to 6300A
Distribution Busbar Rated Current	Up to 4000A
Vertical Busbar Rated Current	Up to 1600A
Main Busbar Short-Time Withstand Current	Up to 100kA
Distribution Busbar Short-Time Withstand Current	Up to 50kA
Degree of Protection	IP30-IP42
Standards	GB/T 7251.2, IEC 61439-2

Data Center Applications

Application

For low-voltage power distribution in power plants, substations, industrial facilities, commercial buildings and municipal infrastructure.

Selection

Configured according to withdrawable or fixed arrangement, busbar current, cabinet size and protection requirements.

Design Basis

Designed to GB/T 7251.2, IEC 61439-2 and applicable industry standards.

BlokSeT
LV Switchgear

Schneider-Authorized

Schneider-authorized 0.4kV low-voltage switchgear for utility, railway, industrial, water infrastructure and factory applications.

Design and Functions

- **Schneider Authorized**
  BlokSeT is Schneider-authorized low-voltage switchgear.
- **Performance Range**
  30kA short-time withstand for 400–1600A ratings and 80kA for 1600–4000A.
- **High-Current Capacity**
  Up to 6300A rated current with 100kA short-time withstand.
- **Certified Performance**
  Arc fault, seismic, salt spray and high-altitude performance available.
- **Flexible Configuration**
  Fixed or withdrawable configurations, circuits and components tailored to project requirements.

SPEC

Model	BlokSeT
Rated Insulation Voltage	690 / 1000V
Rated Operational Voltage	400V AC / 690V AC (IEC 60038); 380 / 690V
Rated Frequency	50 / 60Hz (IEC 60196); 50Hz
Horizontal Busbar Rated Current	Up to 6300A
Distribution Busbar Rated Current	Up to 4000A
Vertical Busbar Rated Current	Up to 2000A
Main Busbar Short-Time Withstand Current	100kA
Distribution Busbar Short-Time Withstand Current	80kA
Degree of Protection	IP30–IP42
Standards	GB/T 7251.2, IEC 61439-2

Data Center Applications

Application

For low-voltage power distribution in utility, railway, industrial, water infrastructure and factory applications.

Selection

Configured according to rated current, short-time withstand capability, cabinet structure and circuit requirements.

Authorization

Schneider-authorized BlokSeT switchgear.

SIVACON 8PT
LV Switchgear

Siemens-Authorized

Siemens-authorized low-voltage switchgear with rated current up to 6300A, suitable for petrochemical, industrial, commercial, airport and rail transit applications.

Design and Functions

- **Flexible Technology**
  Supports fixed-mounted, withdrawable and plug-in designs.
- **Type-Tested Design**
  Standard configurations are type-tested to IEC/GB requirements.
- **Modular Design**
  Modular structure supports flexible system configuration.
- **Flexible Busbar System**
  Horizontal busbar system with rated current up to 6300A.
- **Safe Operation**
  Independent secondary connectors and internal arc protection enhance operational safety.

SPEC

Model	SIVACON 8PT
Rated Insulation Voltage	690 / 1000V
Rated Operational Voltage	400V AC (IEC 60038)
Rated Frequency	50 / 60Hz (IEC 60196)
Horizontal Busbar Rated Current	Up to 6300A
Distribution Busbar Rated Current	Up to 4000A
Vertical Busbar Rated Current	Up to 2000A
Main Busbar Short-Time Withstand Current	100kA
Distribution Busbar Short-Time Withstand Current	65kA
Degree of Protection	IP30-IP42
Standards	GB/T 7251.2, IEC 61439-2

Data Center Applications

Application

For low-voltage power distribution in petrochemical, industrial, commercial, airport and rail transit applications.

Selection

Configured according to fixed, withdrawable or plug-in design and main busbar current.

Design Basis

Designed to GB/T 7251.2, IEC 61439-2 and applicable industry standards.

AC Power Distribution Unit

For final AC power distribution in data centers, distributing upstream power to cabinet rows and critical loads with clear branch circuit management.

Design and Functions

- **Local Distribution**
  Receives power from upstream LV distribution or UPS systems and distributes it to cabinet rows and critical AC loads.
- **Branch Management**
  Clear circuit arrangement simplifies load identification and maintenance.
- **Operation Monitoring**
  Supports metering, status monitoring, alarms and communication.
- **Reliable Maintenance**
  Isolation, circuit identification and maintenance access can be configured for continuous data center operation.
- **Flexible Expansion**
  Circuit quantity, spare capacity, cable entry and cabinet dimensions can be tailored to project requirements.

SPEC

Rated Operational Voltage	400V AC (IEC 60038)
Rated Operational Current	630A
Rated Frequency	50 / 60Hz (IEC 60196)
Output Branch Circuits	6A–63A, Single-Phase / Three-Phase
Short-Circuit Protection Capacity	6kA
Monitoring Parameters	Main Circuit: Power, Current, Voltage, Frequency, Harmonics, Power Factor; Branch Circuit: Current, Switch Status
Degree of Protection	IP20
Metering & Communication	RS485, Modbus RTU
Dimensions	600mm (W) × 1200mm (D) × 2000mm (H)
Standards	YD/T 939-2014, IEC 61439-2

Data Center Applications

Application

For cloud, AI, supercomputing, government, financial and edge data centers.

Design Basis

Designed to YD/T 939-2014, IEC 61439-2 and applicable industry standards.

DC Power Distribution Unit

For final DC power distribution and branch circuit management in data centers, connecting the DC power system to cabinet rows and critical DC loads.

Design and Functions

- **DC Distribution**
  Distributes DC system output to cabinet rows and downstream loads.
- **Circuit Protection**
  Branch protection, isolation and selective coordination configured to system requirements.
- **Polarity Management**
  Configured according to system polarity, grounding and insulation monitoring requirements.
- **Condition Monitoring**
  Supports metering, insulation monitoring, status monitoring and communication interfaces.
- **Flexible Expansion**
  Circuit quantity, spare capacity, cable entry and cabinet structure can be tailored to project requirements.

SPEC

DC System Voltage	240V DC (IEC 60038)
Rated Operational Current	800A
Input Configuration	Single / Dual Input
Output Branch Circuits	Fuse / Miniature Circuit Breaker
Monitoring Parameters	Main Circuit: Current, Voltage; Branch Circuit: Current, Switch Status
Grounding	Ungrounded
Insulation Monitoring	Optional
Degree of Protection	IP20
Dimensions	600mm (W) × 1200mm (D) × 2000mm (H)
Standards	YD/T 2555-2021, IEC 61439-2

Data Center Applications

Application

For cloud, AI, supercomputing, government, financial and edge data centers.

Design Basis

Designed to YD/T 2555-2021, IEC 61439-2 and applicable industry standards.

Prisma E Distribution Board

Distribution board solution for auxiliary systems and final loads in data centers.

Design and Functions

- **Final Distribution**
  Power distribution and protection for auxiliary, power and lighting circuits.
- **Circuit Configuration**
  Incoming, outgoing, protection and spare circuits configured to load requirements.
- **Installation Flexibility**
  Mounting, enclosure size, cable entry and IP rating configured to site conditions.
- **Safe Maintenance**
  Circuit identification, isolation and maintenance space designed for project O&M requirements.

SPEC

Model	Prisma E
Rated Insulation Voltage	690V
Rated Operational Voltage	380V / 400V AC (IEC 60038)
Rated Frequency	50 / 60Hz (IEC 60196)
Main Busbar Rated Current	400A–1600A
Main Busbar Short-Time Withstand Current	10kA / 30kA
Degree of Protection	IP30–IP54
Installation	Floor-Standing / Wall-Mounted
Standards	GB/T 7251.2, IEC 61439-2

Data Center Applications

Application
For cloud, AI, supercomputing and edge data centers.

Selection
10–1600A rated current range for 400V AC systems.

Design Basis
Designed to GB/T 7251.2, IEC 61439-2 and applicable industry standards.

XL-21 Distribution Box

Distribution cabinet for final power distribution and control applications in data centers.

Design and Functions

- **Wide Application**
  For residential, commercial, industrial, hospital and school applications.
- **Modular Design**
  Configurable with breakers, contactors, VFDs and soft starters.
- **Easy Expansion**
  Supports equipment changes and combined installation.
- **Wiring Options**
  Supports multiple incoming and outgoing cable arrangements.
- **Safety Protection**
  Provides overload, short-circuit, leakage, phase-loss and over/undervoltage protection.

SPEC

Model	XL-21
Application Environment	Indoor
Rated Insulation Voltage	690V
Rated Operational Voltage	400V AC (IEC 60038)
Rated Frequency	50 / 60Hz (IEC 60196)
Main Busbar Rated Current	630A
Degree of Protection	IP30
Main Busbar Short-Time Withstand Current	15kA
Installation	Floor-Standing
Standards	GB/T 7251.2, IEC 61439-2

Data Center Applications

Application
For final power distribution in data centers and other commercial or industrial facilities.

Selection
Configured according to distribution capacity, component quantity and installation space.

Design Basis
Designed to GB/T 7251.2, IEC 61439-2 and applicable industry standards.

PZ-30 Distribution Box

Distribution box for final power distribution and control applications.

Design and Functions

- **Wide Application**
  For residential, commercial, industrial, hospital and school applications.
- **Flexible Configuration**
  Supports single-phase and three-phase systems with various pole and protection configurations.
- **Modular Design**
  Flexible combination of MCBs, RCDs and other modular components.
- **Safety Protection**
  Provides overload, leakage and short-circuit protection with durable insulated enclosures for reliable operation.

SPEC

Model	PZ-30
Application Environment	Indoor
Rated Insulation Voltage	690V
Rated Operational Voltage	400V AC (IEC 60038)
Rated Frequency	50 / 60Hz (IEC 60196)
Main Busbar Rated Current	10A–80A
Degree of Protection	IP30
Main Busbar Short-Time Withstand Current	6kA
Installation	Floor-Standing / Wall-Mounted
Standards	GB/T 7251.3, IEC 61439-3

Data Center Applications

Application

For final power distribution in data centers and other commercial or industrial facilities.

Selection

Configured according to distribution capacity, component quantity and installation space.

Design Basis

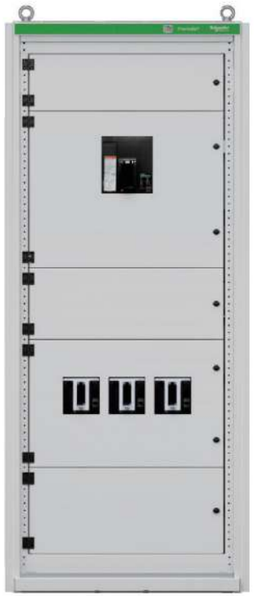
Designed to GB/T 7251.3, IEC 61439-3 and applicable industry standards.

Battery Switchgear for UPS System

Core Products for Data Center
Battery Switchgear for UPS System

- PrismaSeT Battery Switchgear
- Battery Switchgear

PrismaSeT
Battery Switchgear



For battery connection and isolation in data center backup power systems.

Design and Functions

- **Battery Connection**
  Connects battery banks to UPS or HVDC DC buses with a clear connection boundary.
- **Switching Protection**
  DC switching devices, protection settings and selective coordination configured to project capacity.
- **Maintenance Isolation**
  Provides an accessible isolation point for battery maintenance, replacement and group servicing.
- **Status Monitoring**
  Electrical measurements, switch status, alarms and communication interfaces configured to project requirements.

SPEC

Model	PrismaSeT
Rated Operational Voltage	480 / 750V DC (IEC 60038)
Rated Operational Current	1250 / 1600A
Short-Time Withstand Current	20kA / 1s
Cable Entry / Exit	Bottom Entry / Top Exit
Degree of Protection	IP30 / IP40
Dimensions	800mm (W) × 600mm (D) × 2000mm (H)
Standards	GB/T 7251.2, IEC 61439-2

Data Center Applications

Application

For cloud, AI, supercomputing, government, financial and edge data centers.

Design Basis

Designed to GB/T 7251.2, IEC 61439-2 and applicable industry standards.

Selection

Selected according to the maximum battery discharge current based on UPS capacity. For example, a 600kVA UPS can be matched with a 1600A battery switchgear. The same approach applies to HVDC DC bus systems.

Battery Switchgear

For UPS or HVDC backup power systems in data centers, providing battery connection, circuit isolation, protection and maintenance boundaries.

Design and Functions

- **Battery Connection**
  Provides a centralized connection point between battery banks and UPS or HVDC DC buses.
- **Fault Isolation**
  Establishes protection and switching boundaries for battery circuits.
- **Safe Operation**
  Operating method, interlocking, polarity protection and maintenance isolation configured to project requirements.
- **Operation Monitoring**
  Current, voltage, status, alarms and communication interfaces available as required.
- **System Integration**
  Interfaces with UPS, HVDC, battery monitoring and facility monitoring systems coordinated with the overall system design.

SPEC

DC System Voltage	480 / 750V DC (IEC 60038)
Rated Operational Current	1250 / 1600A
Cable Entry / Exit	Bottom Entry / Top Exit
Switching Device	Circuit Breaker
System Grounding	Ungrounded
Degree of Protection	IP30 / IP40
Dimensions	800mm (W) × 600mm (D) × 2000mm (H)
Standards	GB/T 7251.2, IEC 61439-2

Data Center Applications

Application

For cloud, AI, supercomputing, government, financial and edge data centers.

Design Basis

Designed to GB/T 7251.2, IEC 61439-2 and applicable industry standards.

Selection

Selected according to the maximum battery discharge current based on UPS capacity. For example, a 600kVA UPS can be matched with a 1600A battery switchgear. The same approach applies to HVDC DC bus systems.

HVDC System

Core Products for Data Center
HVDC System

- Rectifier Cabinet

Rectifier Cabinet

For AC-to-DC power conversion in data center DC power systems, with topology, capacity, redundancy and control configured to project requirements.

Design and Functions

- **Power Conversion**
  Converts AC input to DC output for DC buses and downstream loads.
- **Capacity Configuration**
  Module capacity, parallel quantity, redundancy and expansion capacity configured to system load.
- **Protection and Control**
  Input/output protection, control logic and fault handling configured to project requirements.
- **Operation Monitoring**
  Operating parameters, status, alarms and communication protocols integrated with the monitoring system.
- **System Integration**
  Coordinated with AC distribution, DC PDU Cabinets, battery systems and supervisory monitoring.

SPEC

AC Input Voltage	400V AC, 50 / 60Hz (IEC 60038, 60196); Three-Phase 380V ±20%, 50Hz
DC Output Voltage	240 / 336V DC
Rated Output Capacity	Up to 600kW per Cabinet
Module Configuration	50kW High-Frequency Rectifier Module, Up to 12 Modules in Parallel
Redundancy	N+1 / N+2, Hot-Swappable Modules
Conversion Efficiency	⩾96.5% at Full Load / ⩾96% at Half Load
Short-Circuit Protection	Output Current Limiting / Fast Fuse Protection / Module Instantaneous Blocking
Communication Interfaces	RS485 / Ethernet RJ45, SNMP / Modbus TCP
Degree of Protection	IP20
Standards	GB/T 38775, YD/T 2378, GB 7251, IEC 62477-1, IEC 61439-2

Data Center Applications

Application
For 240V DC power systems in Tier III/IV, AI and edge data centers.

Selection
Configured by load, module quantity and N+1/N+2 redundancy.

Design Basis
Designed to GB 50174, YD/T 2378, GB/T 38775, IEC 62477-1, IEC 61439-2 and applicable standards.

Prefabricated Power Solutions

Core Products for Data Center
Prefabricated Power Solutions

- Prefabricated LV Module
- Prefabricated MV Module
- Prefabricated Smart Substation
- Diesel Genset Module
- Prefabricated Power Module
- Data Center Power Module
- Customized Data Center Module

Prefabricated LV Module

Standardized, factory-built and modular solution, customizable to project requirements.

Design and Functions

Modular Structure
Flexible modular layout with extensive factory prefabrication.

Factory Integration
Equipment integration and commissioning completed in the factory to reduce on-site work.

Reliable Performance
Dust, water, corrosion, fire and seismic protection available as required.

Fast Deployment
Ready for operation in approximately one month after delivery.

Efficient Construction
Compact footprint with shorter construction time and reduced site work.

SPEC

Voltage Level	400 / 690V AC (IEC 60038); Below 1kV, Customized as Required
System Configuration	Centralized LV Distribution + Intelligent Monitoring
Structure	Modular Prefabricated Module
Production	Factory Prefabrication
Protection	Dust / Water / Corrosion / Fire Protection
Seismic Capability	Available
Commissioning Time	Approx. 1 Month
Construction Period	Approx. 3–6 Months
Standards	GB 7251, GB 50053, GB 50260, DL/T 537, GB 50011, IEC 61439-2
Other Features	Constant-Temperature Ventilation / Automatic Fire Suppression / Remote Monitoring / Smoke & Temperature Alarm / Enhanced Corrosion Protection

Data Center Applications

Application
For power projects requiring fast deployment, reduced site work, compact footprint and modular delivery.

Selection
Configured according to voltage level, equipment scope, module dimensions, environmental conditions and system interfaces.

Design Basis
Designed to GB 7251, GB 50053, GB 50260, IEC 61439-2 and applicable industry standards.

Prefabricated MV Module

Standardized, factory-built and modular solution, customizable to project requirements.

Design and Functions

- **Modular Structure**
  Flexible modular layout with extensive factory prefabrication.
- **Factory Integration**
  Equipment integration and commissioning completed in the factory to reduce on-site work.
- **Reliable Performance**
  Dust, water, corrosion, fire and seismic protection available as required.
- **Fast Deployment**
  Ready for operation in approximately one month after delivery.
- **Efficient Construction**
  Compact footprint with shorter construction time and reduced site work.

SPEC

Voltage Level	11 / 33kV (IEC 60038); 1–35kV, Typically 10 / 35kV
System Configuration	MV Distribution + Protection, Control & Monitoring
Structure	Modular Prefabricated Module
Production	Factory Prefabrication
Protection	Dust / Water / Corrosion / Fire Protection
Seismic Capability	Available
Commissioning Time	Approx. 1 Month
Construction Period	Approx. 3–6 Months
Standards	GB 3906, GB/T 11022, DL/T 537, GB 50011, GB 50260, T/CEC 376, IEC 62271-200, IEC 62271-1, IEC 62271-202
Other Features	Constant-Temperature Ventilation / Automatic Fire Suppression / Remote Monitoring / Smoke & Temperature Alarm / Enhanced Corrosion Protection

Data Center Applications

Application

For power projects requiring fast deployment, reduced site work, compact footprint and modular delivery.

Selection

Configured according to voltage level, equipment scope, module dimensions, environmental conditions and system interfaces.

Design Basis

Designed to GB 3906, GB/T 11022, GB 50011, IEC 62271-200, IEC 62271-1, IEC 62271-202 and applicable industry standards.

Prefabricated Smart Substation

Standardized, factory-built and modular substation solution, customizable to project requirements.

Design and Functions

- **Modular Structure**
  Flexible modular layout with extensive factory prefabrication.
- **Factory Integration**
  Equipment integration and commissioning completed in the factory to reduce on-site work.
- **Reliable Performance**
  Dust, water, corrosion, fire and seismic protection available as required.
- **Fast Deployment**
  Ready for operation in approximately one month after delivery.
- **Efficient Construction**
  Compact footprint with shorter construction time and reduced site work.

SPEC

Voltage Level	400V / 11kV / 33kV / 123kV / 245kV (IEC 60038)
System Configuration	Single Busbar / Sectionalized Single Busbar / Double Busbar
Structure	Modular Prefabricated Module
Production	Factory Prefabrication
Protection	Dust / Water / Corrosion / Fire Protection
Seismic Capability	Available
Commissioning Time	Approx. 1 Month
Construction Period	Approx. 3–6 Months
Standards	GB/T 36276, DL/T 537, GB 50059, IEC 62271-202
Other Features	Constant-Temperature Ventilation / Automatic Fire Suppression / Remote Monitoring / Smoke & Temperature Alarm / Enhanced Corrosion Protection

Data Center Applications

Application

For power projects requiring fast deployment, reduced site work, compact footprint and modular delivery.

Selection

Configured according to voltage level, equipment scope, module dimensions, environmental conditions and system interfaces.

Design Basis

Designed to GB/T 36276, DL/T 537, GB 50059, IEC 62271-202 and applicable industry standards.

Diesel Genset Module

Prefabricated and modular power solution for rapid deployment in data centers, with system scope and equipment configuration tailored to project requirements.

Design and Functions

- **Modular Integration**
  Factory-prefabricated and highly integrated design reduces on-site work and footprint.
- **Safe Operation**
  Multiple electrical protection, fire protection and structural protection measures support reliable operation.
- **Smart O&M**
  Remote monitoring and fault diagnostics support centralized and unattended operation.
- **Flexible Configuration**
  Supports a wide power range and different power architectures for customized deployment.

SPEC

Model	DEC-XXX-ZC
Rated Voltage	400 / 230V AC, 24 / 110V DC (IEC 60038); Three-Phase AC 400 / 230V, DC 24 / 110V Excitation Rectifier Output
Rated Frequency	50 / 60Hz (IEC 60196); 50Hz
Rated Current	According to Generator Rating, 200kW: 360A / 2400kW: 4320A
Short-Time Withstand Current	Main Busbar: 20kA / 1s; Rectifier Branch: 10kA / 1s
Insulation Level	2kV Power-Frequency Withstand Voltage; Insulation Resistance⩾10MΩ
Degree of Protection	Module: IP54; Internal Electrical Cabinets: IP30
Dimensions	12000 × 3000 × 3200mm (200–800kW); 16500 × 3500 × 3600mm (1000–2400kW)
Standards	GB/T 2820, GB 50174, GB/T 30038, IEC 60034-1
Other Features	⩽75dB @ 1m / 24h Full-Load Operation / -35°C to +55°C / Automatic Fire Suppression / ATS / Multi-Module Parallel Operation

Data Center Applications

Application

For backup and emergency power in IDC, cloud, AI, financial and government data centers.

Selection

Configured according to required power, system architecture and supporting equipment.

Delivery

Delivered for lifting and positioning, followed by load testing, commissioning and on-site training.

Prefabricated Power Module

Standardized, factory-built and modular power solution, customizable to project requirements.

Design and Functions

- **Modular Structure**
  Flexible modular layout with extensive factory prefabrication.
- **Factory Integration**
  Equipment integration and commissioning completed in the factory to reduce on-site work.
- **Efficient Construction**
  Compact footprint with shorter construction time and reduced site work.
- **Reliable Performance**
  Dust, water, corrosion, fire and seismic protection available as required.
- **Fast Deployment**
  Ready for operation in approximately one month after delivery.

SPEC

Voltage Level	400V / 11kV / 33kV / 123kV / 245kV (IEC 60038)
System Configuration	Primary System + Protection, Control & Monitoring + Auxiliary Systems; Single Busbar / Double Busbar / 2N / N+1
Structure	Modular Prefabricated Module
Production	Factory Prefabrication
Protection	Dust / Water / Corrosion / Fire Protection
Seismic Capability	Available
Commissioning Time	Approx. 1 Month
Construction Period	Approx. 3–6 Months
Standards	GB/T 36276, GB 50053, GB 50260, IEC 62271-202, IEC 61439-2, Applicable Power Equipment and Data Center Standards
Other Features	Customizable Dimensions / Temperature & Humidity Control / Gas Fire Suppression / Intelligent Monitoring / Lightning Protection & Grounding / SVG Compensation / Energy Storage Interface

Data Center Applications

Application

For power projects requiring fast deployment, reduced site work, compact footprint and modular delivery.

Selection

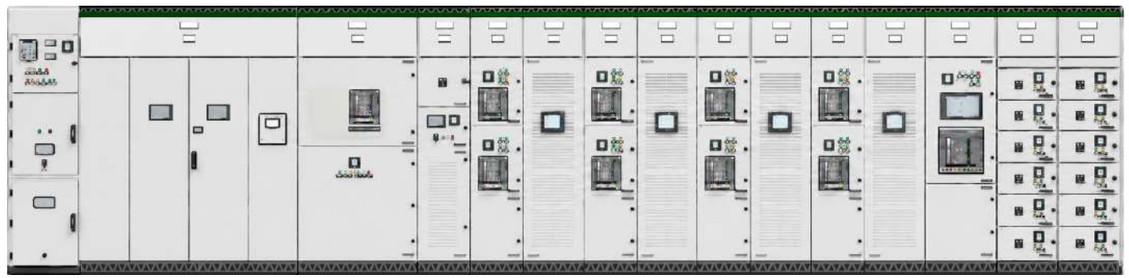
Configured according to voltage level, equipment scope, module dimensions, environmental conditions and system interfaces.

Design Basis

Designed to GB/T 36276, GB 50053, GB 50260, IEC 62271-202, IEC 61439-2 and applicable industry standards.

Data Center Power Module

Integrated and prefabricated power solution for modular data center deployment.



Design and Functions

- **Integrated Power System**
  Integrates key power distribution equipment for rapid deployment in data centers.
- **Compact Design**
  Integrated architecture reduces footprint, installation work and overall system cost.
- **Flexible Configuration**
  Available in multiple capacity options, with utility and UPS capacity configured to project requirements.
- **Reliable Protection**
  Circuit-breaker protection on the UPS side improves fault interruption and system reliability.
- **Intelligent O&M**
  Integrates protection relays, transformer temperature controllers, meters and UPS systems into one monitoring network with centralized display and communication.

SPEC

Rated Voltage	11kV Input / 400V AC Output (IEC 60038); 10kV Input / 380V AC Output
Rated Frequency	50 / 60Hz
Rated Capacity	1600 / 2000 / 2500kVA
System Efficiency	⩾96%

Data Center Applications

Application

For cloud, AI, supercomputing, government, financial and edge data centers.

Selection

Available in 1600 / 2000 / 2500kVA, with utility and UPS capacity tailored to project requirements.

Delivery

Factory prefabrication, standardized delivery and simplified on-site installation.

Customized Data Center Module

Standardized, factory-built and modular solution, customizable to data center project requirements.

Design and Functions

- **Modular Structure**
  Flexible modular layout with extensive factory prefabrication.
- **Factory Integration**
  Equipment integration and commissioning completed in the factory to reduce on-site work.
- **Fast Deployment**
  Ready for operation in approximately one month after delivery.
- **Reliable Performance**
  Dust, water, corrosion, fire and seismic protection available as required.
- **Efficient Construction**
  Compact footprint with shorter construction time and reduced site work.

SPEC

Voltage Level	400V / 11kV / 33kV / 123kV / 245kV (IEC 60038)
System Configuration	Customized to Power Capacity and Redundancy Requirements
Structure	Modular Prefabricated Module
Production	Factory Prefabrication
Protection	Dust / Water / Corrosion / Fire Protection
Seismic Capability	Available
Commissioning Time	Approx. 1 Month
Construction Period	Approx. 3–6 Months
Standards	IEC 62271-202, IEC 61439-2, Applicable Power and Data Center Distribution Standards
Other Features	Customized Module Dimensions / Cooling / Fire Protection / Monitoring / Backup Power Interfaces

Data Center Applications

Application

For power projects requiring fast deployment, reduced site work, compact footprint and modular delivery.

Selection

Configured according to voltage level, equipment scope, module dimensions, environmental conditions and system interfaces.

Design Basis

Designed to IEC 62271-202, IEC 61439-2 and applicable industry standards.

Prefabricated Data Center Infrastructure

■ High Voltage Prefabricated Substation

01 Integrates primary, secondary and auxiliary equipment into a factory-assembled, movable module with moisture, corrosion and thermal protection.

02 Standardized design, factory prefabrication, modular transport and fast installation.

03 Safe, efficient, resource-saving and environmentally friendly.

04 Suitable for power transmission and distribution, renewables, energy storage, data centers, petrochemicals and industrial applications. Voltage levels: 220kV, 110/66kV and 35kV.

Prefabricated HV GIS

Prefabricated Transformer

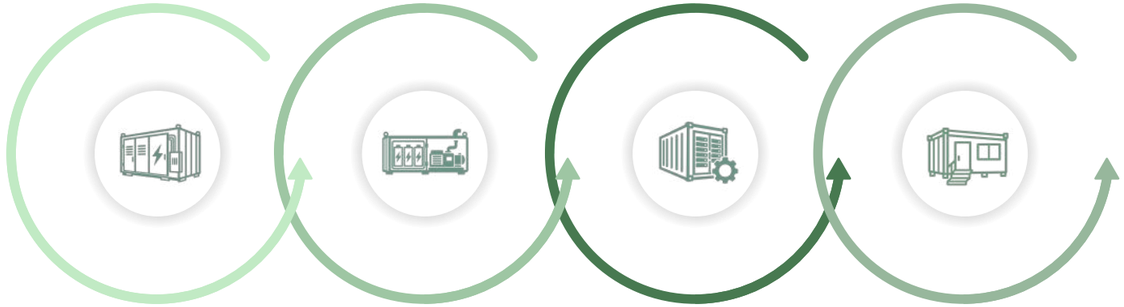
Prefabricated Switchgear

Prefabricated Secondary Equipment

Prefabricated Auxiliary Module

Prefabricated Auxiliary Module

Prefabricated Data Center Advantages



Power Modules

- Data Center Power Module
- Prefabricated MV Module
- Prefabricated LV Module
- Prefabricated Power Module

Backup Power Modules

- Prefabricated Battery Module
- Diesel Generator Module

IT & Custom Modules

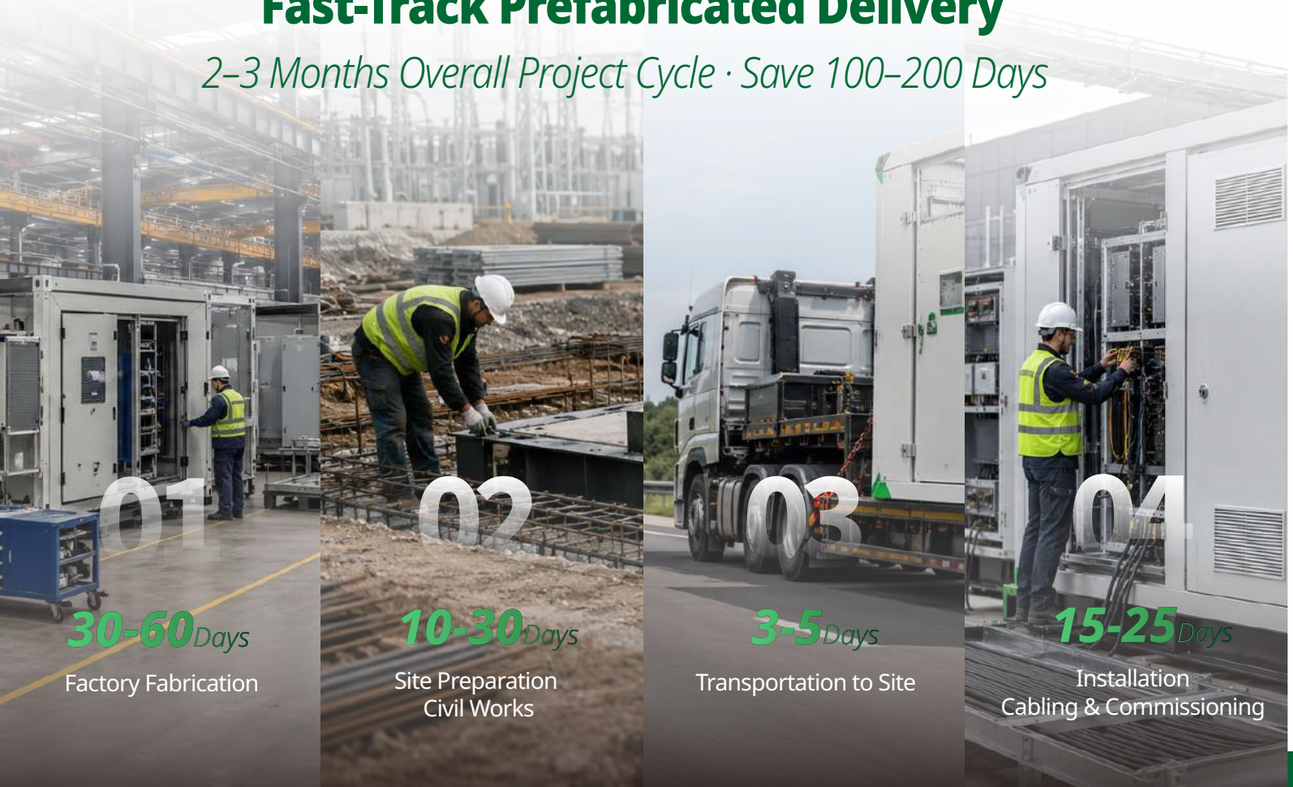
- Prefabricated IT Module
- Custom Functional Module

Auxiliary Modules

- Prefabricated Office Module
- Prefabricated Stair Module
- Prefabricated Corridor Module
- Prefabricated Control Center Module

Fast-Track Prefabricated Delivery

2–3 Months Overall Project Cycle · Save 100–200 Days



Applications

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